Boxuan Hu

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 github.com/root-hbx |

Research Interests

I am broadly interested in Datacenter Networks, Congestion Control, Traffic Management.

Education

Xi'an Jiaotong University, Xi'an, China (member of the C9 league in China) 09/2022 - Present
B.S. in Computer Science and Technology Experimental Class (Qian Xuesen Honor Science
Grade: 89.98/100 | GPA: 3.87/4.3
Ielts: 7.0 | CET-6: 579
Relevant Courses: Discrete Mathematics, Computer Programming (C++), Algorithms and Data Structures I and II (C++)
Operating System, Computer Networking, Computer Architecture and Organization

Publications

Meta & Major League Hacking Oct. 2023 - Present
Software Engineer Fellow *Python, Flask, Git, GitHub*

- Contributing to Meta's AudioCraft, a Generative AI project focused on processing, generation, and autocompletion.
- Creating a Python command-line interface extension with text and audio input validation, to facilitate high-fidelity audio generation for sounds and music.

Meta & Major League Hacking Jun. 2023 - Sep. 2023
Site Reliability Engineer Fellow *Python, Bash, MySQL, Flask, HTML, Git, GitHub, Docker, Linux*

- Developed a website on Flask with Jinja, MySQL and a professional Git/GitHub workflow.
- Automated CI/CD pipelines for unit and integration testing, as well as the deployment the web app, database and Nginx using Docker Compose, GitHub Actions and scripting.

Universal Scientific Industrial Co., Ltd. Mar. 2023 - Jun. 2023
Software Engineering Intern *PHP, JavaScript, SQL Server, HTML, CSS, Bootstrap, jQuery*

- Handled overtime requests and approvals for 2,000+ employees by developing internal back-end systems with PHP.
- Displayed graphs and logs in web interfaces of 6,000+ monthly requests using HTML, JavaScript, and Bootstrap.
- Reduced reports loading times from 10 to 3 seconds, enhancing SQL queries by up to 60%.

Projects

MySpoti Jul. 2023 - Ongoing
Personalized Spotify tops and insights web application *Python, JavaScript, HTML, Flask, Bootstrap, Git*

- Showcasing user's Spotify top tracks, insights and listening history through visualizations in HTML.
- Integrating Spotify's OAuth2, API scopes and endpoints to access user user's data for further process with Flask.

AIWay Sep. 2022
HACKMTY project to create reports and represent them on a map *Python, JavaScript, HTML, Django, Git*

- Developed a real-time traffic and security alert visualization crowdsourced web page using Google Maps API, featuring heat maps for data representation.
- Led the back-end team using Python and Django to build a WhatsApp bot with Twilio. The bot proccessed user reports with OpenAI's GPT-3 API for classification of relevant information.

Honors and Awards

Scholarship for Outstanding Students, Third Prize, Xi'an Jiaotong University	2023
First provincial-level Prize, Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM)	2023
Third Prize, National College Student Olympic Mathematics Competition(CSOMC)	2023
Second Prize(ranking 9/120), International Collegiate Programming Contest(ICPC), Xi'an Jiaotong University	2023

Skills

Programming Languages: Proficient in C/C++, Python, MATLAB, HTML, JavaScript
Technical Tools: PyTorch, LATEX, Git, ssh, Django, Linux, Docker
Language Skills: Mandarin (native), English (Ielts: 7.0)